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Patent claims

- 1. A synergistic composition, characterized in that it comprises an active compound combination comprising
 - (a) one or more active compounds of the formula (I)

$$X \longrightarrow S \longrightarrow S \longrightarrow S \longrightarrow F \longrightarrow F \longrightarrow F \longrightarrow (I)$$

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in which

X represents halogen and

n represents 0, 1 or 2

("active compounds of group 1")

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- one or more active compounds from one or various of the following groups (b1) to (b) (b7):
- (b1) aldicarb, alanycarb, aldoxycarb, aminocarb, bendiocarb, benfuracarb, BPMC, bufencarb, butocarboxim, carbaryl, carbofuran, carbosulfan, cloethocarb, ethiofencarb, fenobucarb, fenoxycarb, furathiocarb, isoprocarb, metam-sodium, methiocarb, methomyl, metolcarb, metolcarb, oxamyl, phosphocarb, pirimicarb, promecarb, propoxur, thiodicarb, thiofanox, trimethacarb, XMC, xylylcarb ("carbamates");
 - (b2)imidacloprid, acetamiprid, AKD 1022, clothianidin, dinetofuran, nitenpyram, thiacloprid, thiamethoxam ("neonicotinoids");
 - (b3) fipronil, acetoprole, ethiprole, fenpyroximate, vaniliprole ("pyrazoles");
 - (b4) spinosad, abamectin, avermectin, emamectin, emamectin-benzoate, ivermectin, milbemectin, milbemycin, moxidectin, thuringiensin ("macrolides");
- (b5)tebupirimfos, azamethiophos, azinphos-ethyl, azinphos-methyl, bromophos-ethyl, .25 butathiofos, cadusafos. carbophenothion, chlorethoxyfos, chlorpyrifos, chlorpyrifos, chlorpyrifos-ethyl, chlorpyrifos-methyl, coumaphos, cyanophos,

demeton, demeton-S-methyl, demeton-S-methyl-sulfone, dialifos, diazinon, dichlofenthion, dimethoate, disulfoton, ethion, ethoprophos, etrimfos, fenitrothion, fensulfothion. fenthion, flupyrazofos, fonofos, formothion. fosmethilan, iodofenphos, iprobenfos, isazofos, isoxathion, malathion, mecarbam, mesulfenfos, methacrifos, methidathion, omethoate, oxydemeton-methyl, parathion-methyl, phenthoate, phorate, phosalone, phosmet, phosphocarb, phoxim, pirimiphos-ethyl, pirimiphos-, methyl, profenofos, prothiofos, prothoate, pyraclofos, pyridaphenthion, pyridathion, quinalphos, sulfotep, sulprofos, temephos, terbufos, thiatriphos, thiometon, triazophos, vamidothion ("thiophosphates" or "dithiophosphates"), or

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(b6)tefluthrin, resmethrin, acrinathrin, allethrin (1R isomer), alpha-cypermethrin, beta-, cyfluthrin, beta-cypermethrin, bifenthrin, bioallethrin, bioallethrin (S-cyclopentyl isomer), bioethanomethrin, biopermethrin, bioresmethrin, brofenprox, chloethocarb, chlovaporthrin, cis-cypermethrin, cis-resmethrin, clocythrin, cycloprothrin, cyfluthrin, cyhalothrin, cypermethrin, cyphenothrin (1R-trans isomer), deltamethrin, dimefluthrin, eflusilanate, empenthrin (1R isomer), esfenvalerate, etofenprox, fenfluthrin, fenpropathrin, fenpyrithrin, fenvalerate, flubrocythrinate, flubrocythrinate, flucythrinate, flufenprox, flufenprox, flumethrin, fluvalinate, fubfenprox, gamma-cyhalothrin, halfenprox, imiprothrin, kadethrin, lambda-cyhalothrin, metofluthrin, MIT-800, permethrin, phenothrin (1R-trans isomer), prallethrin, profluthrin, protrifenbute, pyresmethrin, pyrethrum, RU-12457, RU-15525, silafluofen, tau-fluvalinate, tetramethrin (1R isomer), thetatralocythrin, tralomethrin, transfluthrin, cypermethrin, zeta-cypermethrin ("pyrethroids and pyrethroid analogs");

25 (b7)

Compound of the formula (IIA)

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3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec (carboxylic acid, 3-ene-4-yl ethyl ester, (9Cl));

("active compounds of group 2").

- The synergistic composition as claimed in claim 1, characterized in that it comprises one 2. or more compounds of the formula (I) in which
 - X represents fluorine, chlorine or bromine and
 - n represents 0 or 2.
 - 3. The synergistic composition as claimed in claim 1, characterized in that it comprises one or more compounds of the formula (I) in which
- 10 X represents fluorine or chlorine and
 - represents 2. n
 - 4. The synergistic composition as claimed in claim 1, characterized in that it comprises, as active compounds of group 1, one or more compounds of the formulae (IA), (IB) or (IC)

$$CI = \begin{cases} N & O \\ S & S \\ S & I \\ O & S \end{cases}$$

- 5. The synergistic composition as claimed in claim 1, characterized in that it comprises, as active compound of group 1, the compounds of the formula (IC).
- 6. The synergistic composition as claimed in any of claims 1 to 5, characterized in that it comprises, as active compounds of group 2, one or more of the following active compounds:

aldicarb, clothianidin, imidacloprid, fipronil, spinosad, tefluthrin, tebupirimfos, compound of the formula (IIA)

- 7. The use of a composition as claimed in any of claims 1 to 6 for controlling pests.
- 8. A method for controlling pests, characterized in that a composition as claimed in any of claims 1 to 6 is allowed to act on the pests and/or their habitat.
- 5 9. A process for preparing synergistic compositions, characterized in that a composition as claimed in any of claims 1 to 6 is mixed with surfactants and/or extenders.